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The Tech News Volume 6, Issue 17, January 26 1915

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TECH NEWS



VOL 6

WORCESTER, MASS., JANUARY 26, 1915

NO. 17

Tech Defeats New Hampshire

Relay Team Wins First Race Easily

TO RUN BOSTON COLLEGE SATURDAY

The relay quartet opened the season auspiciously last Saturday night at Boston, when the New Hampshire State team was disposed of without a great deal of trouble. The event was held at the annual games of the Coast Artillery Corps in the Irvington Street Armory, this being the first of the indoor meets to be held this winter. The next is to be held by the Irish-American A. C. Saturday where Tech will run the Boston College aggregation.

In last Saturday's race, New Hampshire won the toss and took the pole. Degnan opened the race for New Hampshire and led Cleveland for the first lap, but the new recruit on our team jumped into the lead here and handed over five yards to Ricker. The latter was in a weakened condition from a painful boil on his neck, but added several yards to Tech's lead. The race then became merely a procession for Tech, Russell and Warren increasing the lead until "Nitch" was 40 yards ahead when he crossed the finish line. The last three runners for the Granite State team were Davis, Sanders, and Ward.

Tech's time was 2 min., 40 4-5 sec., and the team was not pushed to its limit. The M. A. C. quartet defeated Tufts at the same meet in one second faster time, so that the prospects indicate a great race when Tech meets M. A. C. at the B. A. A. games in Boston, Feb. 6.

Big Social Event

Next Tech Mixer

Edwin M. Whitney will be the principal entertainer at the Tech Mixer to be held next Friday evening, in the E. E. Lecture room. Mr. Whitney achieved a wide reputation as a member of the recently disbanded Whitney Quartet, and as reader for that organization. He is now giving programs including readings of such classics as "The Haunted Man," "Milestones," and "The Man of the Hour," together with short selections from modern humorists and short-story writers. While we do not know the exact program to be given, there is no doubt that the "King of Story-Tellers" alone will merit your attendance and "hers."

To lend a touch of variety to the program, the Y. M. C. A. has also secured Miss Lydia White, harpist in the Boston Symphony Orchestra. To those who have heard a skilled harpist, this feature of the entertainment will need no further recommendation. After the formal program has been carried out, there will be

(Continued on Page 5)

Near Death by Drowning Caused by Spectacular Chemical Precipitation

MASS ACTION THE DIRECT CAUSE
SIX SENIOR CHEMISTS ENCOUNTER
THRILLING EXPERIENCES.

Dame Fortune is a goodly maid but her sister "Miss Fortune" is not so popular, at least in the eyes of the senior chemists, for it was due to the latter maiden that six members of the class of 1915 were obliged to "shiver and shake 'till they did ache."

The movie goers are aware of the thrilling experiences portrayed in the "Perils of Pauline" and similar photoplays, but had a movie



man been present with the seniors on their inspection trip last Wednesday afternoon he could have "caught" a thriller that would have overshadowed anything of the past.

The chemists, of course, are well aware of the fact that water is wet and that when taken internally it has its good advantages—also externally, on periodic occasions under definite conditions—but to receive the application by a percolation thru overcoats, suits, etc., it is a far different story.

This particular precipitation was unique in that it obeyed certain definite laws and directly disobeyed others. It was caused by a double decomposition according to law; but it differed in that, instead of a substance being thrown out of the solution, it was thrown directly into the solution. A sad fact nevertheless, but true.

The scene of the near-tragedy lay at the Worcester Purification works which the seniors, together with Professor Bonnett and Fred Flint, were inspecting.

(Continued on Page 3)

Plans For Class '87 Gates Adopted

Beautiful Structure to Adorn Field
Entrance

To Be Formally Dedicated at
Commencement

The plans for the new gates, which will adorn the entrance to our new athletic field have now been fully decided upon and that the approach is to be an ideal one is shown by one glance at the cut below.

These gates and land are the joint gift of Mr. Harry Worcester Smith and the class of '87. They are to be known as the Class of '87 gates. Mr. Smith, who

was a member of that class, voluntarily agreed to pay the cost for the new gates and half the cost of the land, provided that the class of '87 would pay the other half. Of course, these men very willingly agreed to enter into this very generous idea proposed by Mr. Smith and as a result we will have the main entrance approach, at the corner of Institute Road and Park Ave., beautified by iron gates, with a brick and iron fencework, similar to other fencing that surrounds our new athletic field.

The stonework, it is planned, will be of a copy as much similar to the material in Boynton Hall as possible and based on the same artistic lines. Gray and yellow Millstone Hill granite is being used.

J. Williams Co. of New York City, who built many of the gates at Harvard College and other famous gates in New York, are the builders of these new gates, work upon which has begun already. The foundation has been put in by Edward F. Miner Co., and it is assured that all, including the gates, fencing, sidewalk, and grass plots, will be complete before our 50th anniversary this coming June. The gates will be formally opened and the keys turned over during the Commencement week exercises.

Spring Track Schedule

Five Meets, Majority at Home

Tech's spring track season bids fair to be a live one. Manager Putnam has arranged a fine schedule of five meets for his men and training for these meets will be started just as soon as weather permits.

As in the past, the interclass games will open the season, the date for those being, April 17th. They will be held on our new athletic field this year instead of at the oval, as in past years, and this will be an advantageous added feature.

Massachusetts Agricultural team will compete with us here on Alumni Field on the following Saturday; while our men will journey to Hartford to race against the Trinity aggregation May 1st. The big meet of the season, with Rensselaer will take place here on Saturday afternoon, May 15th. The season will practically close with this meet, except for those men who will remain in training for the big N. E. Intercollegiate races, which will be held on May 27th. The place for them has not been decided upon as yet.

Announcements for the relay season are not available at this time as Manager Putnam has not completed final arrangements for the meets as yet. The only definite one being that we run M. A. C. at the B. A. A. meet to be held in Boston on February 6th. As to whether we will run Holy Cross at the Emmet Guards meet is still a question. Negotiations are under way for relay races at the Providence Armory and the Hartford meets, which come on February 19th and 20th respectively.

INTERCLASS RELAYS POSTPONED

Owing to the stormy weather just previous to the mid-year exams, the final heats in the interclass relay races for the silver cup had to be postponed. They will be run off in the near future. The Seniors and Freshmen will race for the cellar position while the Sophomores will compete with the Juniors for the initial berth.

TECH NEWS

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The Tech News welcomes communications but does not hold itself responsible for the opinions therein expressed.

All material should be in before Thursday noon at the latest in order to have it appear in the week's issue.

Entered as second class matter, September 21, 1910, at the postoffice at Worcester, Mass., under the Act of March 3d, 1879.

THE DAVIS PRESS

BOOST TECH

Editorials

SENIOR ELECTIONS

Soon after the second half year begins the permanent officers of the class of 1915 will be elected to their respective positions. At this time there is always more discussion, more feeling and more "party" spirit evidenced than at any other time. In a way of advice and warning, a discussion of the class officers and their respective importance, follows.

The first officer elected is usually the President. Above all things do not elect a "dark horse." We need, this year, more than ever, an able man at the head of the class. Choose the man who will be agreeable, who is a good speaker and who will "bear inspection in public." His real importance will end with Commencement.

The Vice-President is merely an officer holding an honorary position. As in all organizations, he assumes the duties of the president when the latter is unable to act. Theoretically, then, he would be the man who would be second choice for president. The position itself carries no real importance with it.

An active, energetic and responsible person is needed for the office of treasurer. There is much work to be done in connection with collecting the Alumni pledge. The total amount of five hundred dollars must be made up by those of the class who are left. This office in this year is particularly important.

The most important office, and the one which should be of the most honor to hold, is the Secretary. Use a little thought when electing this man. He does not show himself as does the president, but in after years he is the one bond of union

between the men of the class. Your relations with the Institute, as a class and as an individual, will be largely through your secretary. He will always have a list of the men and their work and hence will be a source of information to all of the men. It is around him that the whole class centers and through him that every man is linked together.

Do not name a superfluous number of candidates. There are not six or eight men who are equally able to fill the office of President. Keep sectional spirit out of the "class politics." Regardless of "party designation" vote for the man who, in your own mind, is best fitted for the office in question.

PRACTICE MAKES PERFECT

Evidently the editorial published by the NEWS recently, concerning the learning of Tech songs, did not take very deep effect. At least, indications do not point that way. However, a good thing takes considerable time, sometimes, to come into full sway, so we take this second opportunity to remind you and to try to accomplish, what seems to the NEWS to be something of exceeding value to Tech. If this does not bring the desired results we shall try again. We are persistent when it comes to bettering Tech—and that is the main IDEAL of the NEWS.

Tech men love to sing Tech songs and no Tech function is complete unless some song or cheer connected with our dear Alma Mater enters into it. Nevertheless, there are some songs, yes, Tech songs, and very good ones at that, which you students do not know. They are not sung at our banquets, games, etc. Why? Simply because they are not known well enough. You can never learn them if you do not try, so the NEWS again urges that these songs—such as "Here's to Tech," "Worcester Tech, our Polytech," "Here's to Good Old Tech," "Victory Song," and several others—be used more. At populars, mass meetings, in fact at any congregations, attempts should be made to practice them. Practice makes perfect, remember. Don't be satisfied with the few you know, learn the others. If you do not, you will not be able to get loyal Tech men, musically inclined, to write any more for you.

Why not learn them NOW? Get onto the tune and whistle it until you have it down right. Practice it till you have the words so that they will flow out unconsciously. They are not hard and both you and Tech will be well repaid for your efforts.

Let's start in by learning this one.

"HERE'S TO TECH"

"We have enlisted up on old Tech Hill
Where we have duties we can and can't fulfill," etc.

PROPOSED ADDITION TO CURRICULUM

According to the Tufts weekly, "Last year a movement was begun by the Ivy Society to make the learning of college songs a part of the required work in the freshman English classes. After the professors and instructors of the two English departments had expressed their willingness to co-operate in the movement, the student body voted that the scheme be carried out officially.

The work has been continued this year under the care of Tower Cross."

This is indeed a very good idea and should give the results anticipated. Here

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at Tech we certainly are in need of some similar arrangement. This is a suggestion for the right persons to use to a good advantage.

ANONYMOUS COMMUNICATIONS.

The NEWS gladly solicits communications of all sorts, concerning Tech and her activities but we must have the writer's signature on the copy before we can publish it. The name of the author will not appear in the columns of the NEWS, if he so desires; but we must know where the material comes from so that we can place the responsibility in case anything necessitating that should arise.

Please do not construe this to mean that we are looking for all kinds of articles on almost any diverse subject. Such is not the case; but if anyone has any real good ideas and suggestions of improvements, etc., we would be glad to publish them for him.

A word to the wise is sufficient. Bear in mind that in the near future, when it comes to the election of the various class officers, that the several class presidents are to, automatically, according to their office, become members of our Tech Council.

The second semester is now on. Let last half be your teacher. Profit by your past mistakes and take advantage of your future opportunities. Make a good start and the successful finish will come much easier.

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CLASS OF '87 GATES

(Continued from Page 1)

The triangular piece of land (shown in diagram) at the corner of the two streets and directly opposite to the end of Dover St., has been rounded off; the city purchasing part of it and extending Dover St., across; so that now a rounded corner is present in the place of the former ugly angle.

Olmstead Bros., Brookline, were given the work of laying out the approach.

A granolithic sidewalk guards the land from the road, in the center the driveway leads through the gates into the football field, paved with belgian blocks in simple design. On the right and left are two grass plots with an elm tree in the center of each, and right angle to the main entrance walk are two graveled walks, one leading to Institute road and one to Park Avenue, separated from the main line of the fence by curb-bound flower bed. Inside the line of the fence higher shrubs will be planted, which with the trees and the flower bed, grass plot and paving will relieve the severity of the lines of the plain gate posts and railing.

We cannot praise Mr. Smith too highly for the interest he has manifested in the development of our athletic field, for his generous gift and for his successful efforts in getting his class to contribute with him toward this worthy cause. He has always been interested in athletics even back to the time that he was a student here at Tech. At his estate, Lordvale, North Grafton, he has several horses and hounds which have won fame in sporting circles.

Smith was one of the men supposed to have been in the scheme that put the horse in Boynton Hall tower, one of the ever famous episodes of the past connected with the Institute, although he claimed that he could prove an alibi for himself as to his whereabouts for that evening. In his collegiate days he sometimes was accustomed to ride to school on one of the old-fashioned high bicycles; while at other times, a span of horses drawing a coach, brought him to the Institute. These doings being at the extreme consternation of the faculty at that time as a result, they sent a notice to his mother to the effect that if he would come to school in the ordinary manner (i.e. walk, as the rest of the students did) it would be greatly appreciated.

NEAR DEATH

(Continued from Page 1)

R. S. Lanphear '06, Supervising chemist at the works had very interestingly and instructively conducted the party over the entire system, explaining in detail the many important chemical and mechanical processes connected with the sanitary disposal of sewage. Several hours were spent in following the treatment, from the time the sewage entered the grit chambers, until it left the last filter beds, purified. The trip was over and the party was about to return home when, on crossing a brook at the end of the filter beds on a board walk spanning a 10 foot, but supposedly deep, tank of water, the "young" bridge could not stand the strain of six men standing on it, and the result as chronicled above took place. The names of the six men are held from publication at their request, but ask a senior chemist and you will probably be able to find out who's who.

The water happened to be only about two feet deep, so the majority of the men got away with "knee deep" soaking; although one of the number, not desiring to take a chance, as he was in the middle; attempted to make his escape by swimming. Needless to say, he got the wettest.

PROFESSOR BUTTERFIELD ON TRIP

Professor Butterfield left Worcester Monday afternoon of exam week for Philadelphia and Washington, spending a few days at each place on Alumni work. He returned Sunday, however, resuming his teaching work at the Institute at the opening of the second semester yesterday.

'07 CHEMIST CO-AUTHOR OF GOVERNMENT BULLETIN

Joseph F. Cullen, of the class of 1907 and at the present time with the Bureau of Mines, is a co-author with Dorsey A. Lyon and Robert M. Keeney, also of the Bureau, of Bulletin No. 77 which has just been issued by the Dept. of the Interior.

The bulletin in 215 pages deals with the very important subject "The Electric Furnace in Metallurgical Work" and is divided into three parts.

The first part was written by Messrs. Lyon and Cullen and explains the design, construction, and operation of electric furnaces.

Part two, by Messrs. Lyon and Keeney on the smelting of metals and Part three, by Mr. Keeney on the manufacture of ferro-alloys in the electric furnace give the history, theory, processes of manufacture, and uses in each case.

A glossary, an excellent bibliography and an index complete the bulletin.

The bulletin is one which ought to prove interesting to the many citizens of Worcester who are connected with the iron and steel industries.

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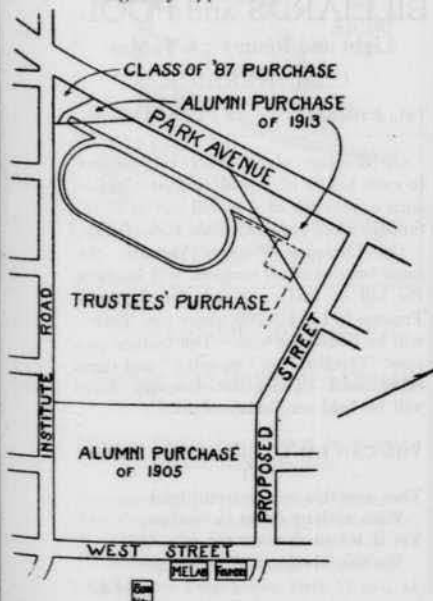
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**ALUMNUS INQUIRES CONCERNING
RECOGNITION PINS**

The matter of a Tech recognition pin is now becoming a topic of wide discussion both among the alumni and students. The Council, which is taking up this matter, is acting very slowly and carefully with it, as they do not want to rush anything through, which will not be to the satisfaction of the majority of Tech men.

There is evidently a varied quantity of ideas and suggestions on this matter; but a more open discussion should be carried out, before a decision, as to the nature of the pin, is made. The columns of the News are open to all—alumni, students, faculty or anyone interested—and it is hoped that any person who has any ideas or suggestions to pass along, will do so by sending in a communication to that effect.

The following letter from a Holyoke alumnus shows one man's idea on the subject, and as it was entirely unsolicited on our part, goes to show that our loyal alumni are also keenly interested in this matter. Let's have some other expressions of opinion.

HOLYOKE, MASS.,
Dec. 18, 1914

Editor TECH NEWS,
Worcester Polytechnic Institute.

DEAR SIR:

Referring to second column, page 2, issue of Dec. 15th, item on "recognition pins," I have two questions which I would like to ask:—

What's the matter with the present Tech pin? Probably a good number are sold—why make them "back numbers"?

Is it intended to select a design, without showing it to the alumni through the columns of the NEWS and the JOURNAL? They are interested also.

Long life to you.

ALUMNUS.

EDITOR'S NOTE: Designs of some of the suggestions presented will be published in the NEWS in a later issue, just as soon as they can be obtained. There is no doubt but that the alumni will be consulted before any final action is taken.

TECH TENNIS A POSSIBILITY

Movement to Organize Team is Started

It is evident from information received that a Tech 'varsity tennis team is not wholly a remote possibility. A meeting of half a dozen men interested in tennis was held two weeks ago, and it was agreed to look into the ways and means of organizing a tennis team for the coming spring. Two men are investigating the expenses of such a team, while a third is arranging a tentative schedule with various colleges. The promoters do not promise to furnish Tech with a tennis

team next spring, but an attempt will be made in this direction. The only obstacle appears to be a financial one, and to solve this is the greatest problem at present. It is still early enough, as indicated in the replies received, to make out a credible schedule, and if the necessary funds can be secured without delay the dates will be confirmed. Any suggestions will be welcomed, and will reach the proper persons if addressed to The Tennis Editor, TECH NEWS, in the NEWS box in Boynton hall.

**HOLY CROSS AFTER ST. LOUIS
PLAYERS**

The following dispatch to the Boston Herald, which appeared recently, may be of interest in showing the different athletic policies of the two Worcester rivals.

"ST. LOUIS, Mo.,—Stars of the Christian Brothers College football team of 1914 have been invited to enter Holy Cross University at Worcester, Mass., since C. B. C. has abandoned the gridiron game because of financial losses for the last few years.

"The report came from Christian Brothers College today, following the visit here of Luke Kelly, Holy Cross' coach and formerly of C. B. C. There is no one-year rule at Holy Cross and the matter will make Norman Sacksteder, considered the best open field runner in Missouri last fall; Essman, said by Zupke of the Illinois western champions, to be the best tackle in the West, and several other good men eligible to play at once on entering Holy Cross."

"HIGH ALTITUDES" TOMORROW

The physics colloquium, which was scheduled to have been held the Wednesday previous to mid-years, was postponed until tomorrow night, owing to the fact that the subject being such an interesting one bids fair to call out a goodly number, it being changed, therefore, to give the students an opportunity to attend. Dr. R. H. Goddard '08 will be the speaker and he will propound an original theory of his on "How to Reach High Altitudes."

Henry R. Power of the Dept. of Chemistry gave a talk before the members of the Swedish Branch Independent Order of Good Templars, on Thursday evening, Jan. 14. The subject was "Pure Food" and was illustrated with samples of food products purchased in Worcester Stores. Mr. Power will address the Worcester Woman's Club on the afternoon of Jan. 27th, regarding the work in which he has been engaged in the preparation of the Worcester White List of Pure Food which is soon to be issued by the Club.

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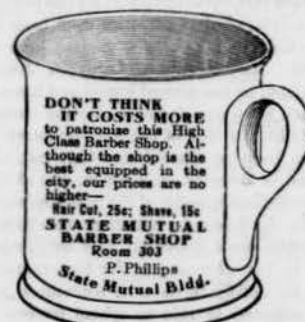
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RETROSCOPE

With the beginning of a new year it is always well to look back upon the departing one; and refresh in our memory those events, which have brought fame and recognition to our college and to those connected with it.

Probably the greatest single event was the auspicious christening of our new athletic field in November. That a new era was born at Tech on that day will never be doubted, and the fact that we scored a decisive victory over our rivals only strengthens the statement.

At the first of last year a Rifle Club was organized and has since proved itself to be one of the most successful branches of sport on the "Hill." It obtained a high enough yearly percentage to be allowed to rise into the next higher class, which in itself is no small honor.

The annual Tech Show, written entirely by a Tech man, was a complete success, it being given two successive nights at Tuckerman Hall. The attendance on both these nights showed that the entire student body welcome such social events and will support them.

In competition for the "1890 cup" given to the class relay team winning it three times, the team representing 1916 obtained the first leg toward its permanent possession by defeating the three other classes in hard fought races.

The students and the teaching force were brought into closer contact when the Tech Council was organized last March. Since its organization it has made itself felt in many instances, notably in the doing away with the Freshman rules.

Mr. Shedd of the Y. M. C. A. left us last spring to secure a position with the State Y. M. C. A. and the services of Mr. G. O. Pierrell were obtained to take the office of Secretary. The wisdom of the committee which selected him as "C. P.'s" successor has been continually shown in the work accomplished since he took charge.

During the last year Tech was exceptionally successful in track. Commencing with the defeat of R. P. I. at Troy, followed by a wonderful showing at the Penn Relay games, where the "crimson and gray" showed their heels to five middle-western colleges.

The commencement exercises of the class of 1914 were honored by the presence of Governor Walsh who addressed the graduating class.

When the roll call was given last September it was found that we had with us about 540 men, which was a slight advance over the previous year's registration. At one time it was feared that we might have to start the year without the services of some of our good professors and instructors, but helped on by fate they finally emerged from the war zone in ample time to greet us. However, several had experiences which will always stay in their memory.

Although we departed from our usual custom, thanks to the Athletic council, and refused to play the football team from Mt. St. James, we suffered no loss. Our season was the most satisfactory one we have enjoyed in years, and the game on Alumni Field which closed the season was a delight to every graduate and undergrad.

Unfavorable weather conditions have greatly hampered the fall work of the track team but everyone knows that

"Charlie" O'Connor will be there when the starter's gun is fired.

Now that the exams are over and we have four months of opportunities ahead of us, it should be the aim of each and every loyal Tech man to boost his Alma Mater in every way possible, and a year from this time the News will be ready to state that "1915 was a year which will be remembered by all who were ever connected with Worcester Tech."

TECH MIXER

(Continued from Page 1)

an informal gathering and social hour, probably in the E. E. Laboratory, with refreshments.

Now, fellows, we know that many of you didn't take "her" to the first Mixer. Here is your chance. Single seats which have not been allotted to season-ticket holders will be "given away" at half-a-dollar each. If you are bashful, remember that the rest of the audience won't be looking at you anyway. Be a "sport," and help fill the lecture room next Friday evening.

SENIOR AFTERMATH

Up to the present time only about 1/3 of the Aftermath assessments have been collected. It is quite necessary that most of the funds should be in the hands of the committee by the first of March in order that a satisfactory book may be published.

The Board is trying to get out a book this year which will surpass all others. The scheme of characteristic pictures will be used as in last year's book. There will be a distinctive border design for the pages of the class and faculty section. Many new knocks and jokes will also be in order, together with new pictures and interesting stories, which will make Tech and its life appeal to you in a different way than it ever has before.

The plans are to get the book out by the middle of May. To do this means hours and days of hard work. Therefore our plea to you, as Seniors, is for your help both in getting material into shape and also financially. Remember that it is a "New Tech" that is coming. Let's keep up our end.

W. P. I. VERSUS U. OF P.**RIFLE TEAM OPENS SEASON TONIGHT**

The rifle team will open its 1915 season tonight, shooting against the University of Pennsylvania. Because of the proximity of mid-years, the team is not in the form that it expects to attain within two or three weeks; but the shooters should total 925 or better, which is considerably higher than last year's average. The targets of tonight's match will be forwarded to Washington, where they will be officially scored and the result of the match announced.

The team that will shoot tonight is not the permanent team. There will be competitive tryouts for several of the matches, if not for all, and more candidates are urged to come out. Consistent practice is what developed the members of the team last year, and the men who stick to it this year will be the best men for next season. The range will be kept open for practice from 4 to 5.30 every afternoon as usual.

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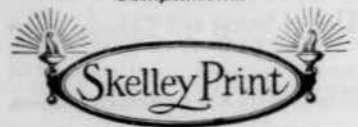
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TECH SHOW PROGRESSING

Cast is Picked—Regular Rehearsals from Now On—Poster Contest Announced

The cast for the Tech show has been practically picked as a result of the two tryouts held previous to the mid-year examinations. Two or three parts are not fully decided, however, and Coach Carroll will drill the entire list of characters before announcing the successful candidates. The pressure of studies during the past two weeks prevented any work in coaching; but the first rehearsal was held last night and regular rehearsals will be the order from now on. The date will be either March 26 or March 27, depending on conditions that are as yet uncertain.

As in previous years, a prize of \$5 has been offered for the best poster advertising the show. The conditions and closing date of the contest will be announced in the columns of the News soon.

CIVILS DEFEAT BOYS' CLUB

"Midgets," and Later the First Team, Fail to Stand the Pace

The Worcester Civils dropped the worries of exam week long enough to defeat the Boys' Club Midgets on Saturday evening, Jan. 16. Playing before a crowd of 300 in the Boys' Club gym, the Tech team showed some great team work and shooting ability; and in spite of the efforts of the Boys' Club to stem the tide, the Civils landed on top by a score of 30 to 21.

The original line-up of the Midgets was not of the diminutive nature the name implies; but when they were snowed under the first half, three freshmen who played on the first team last year, supposed to be the fastest team in Worcester, were rushed to save the game. The second half was played on even terms, the new men failing to cut the Civils' lead materially. For Tech, Wood played a fine running back game, while Archibald did some great passing. The line-up:—

CIVILS	BOYS' CLUB
Archibald, I. f.	r. b. Fors
Davidson r. f.	l. b. Duquett
Libbey, c.	Cornwall
Burlingame, l. b.	c. Gillian
Wood, r. b.	r. f. J. Lawless
	Powers
	l. f. Mullins, E.

Score, Civils 30, Midgets, 21. Baskets by Wood 6, Davidson 3, Archibald 2, Libbey, Powers 4, Duquett 2, Fos, J. Lawless, E. Lawless, Mullins. Baskets on free tries, Davidson 6, J. Lawless. Referee, W. Gillian. Timers, Hayes and Bowker. Time 20 and 15 min. periods.

EXHIBITION GAME PLANNED

Following the game with the Boys' Club, the Worcester Civils' management made preliminary arrangements for an exhibition game with the regular Boys' Club team to be played in the Trade School gym Feb. 27th, the first open date on the Civils' schedule. The game will probably be confirmed this week.

CHANGES IN PHYSICS CURRICULUM

The department of Physics offers three new courses for next half year, they being: Theory of Light, by Dr. Ewell; Heat Radiation, by Dr. Masius; and Erectonics, by Mr. Plympton. These courses are included in the General Science curriculum but are elective to any other junior or senior who may desire to take them.

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**FOUR DATES FOR FOOTBALL
[SEASON ANNOUNCED]**

The rounding of the football schedule into shape is progressing rapidly and it is expected that the complete schedule will be out soon.

The dates for at least four of the games have been definitely settled, while arrangements on the rest are still pending. The opening game will be played here with Connecticut Agricultural College on September 25 while Amherst "Aggies" will come here on October 23rd. The "farmers" play Holy Cross the Saturday previous. New Hampshire State plays at Worcester on November 13th and the season will close at Troy, N. Y., with Rensselaer on November 20th.

Manager Ward feels doubtful now as to the possibilities of a game with Amherst, but it is expected that Norwich may be obtained to take her place.

No definite action has been taken as yet in regard to the selection of a football coach for next season. A financial report of the past football season will appear in the News in a subsequent issue.

MATH⁸ EXEMPTIONS

The following list of freshmen and sophomores were exempted from taking the final examinations in mathematics, which were held last week.

The cause of this being that the mathematics department made a new ruling to the effect that no exemptions be made and that all men should take the exams.

NEW GAEDA VACUUM PUMP OBTAINED FROM GERMANY

The department of Physics has been successful in obtaining from Germany an order which was placed last summer for a new vacuum pump of the Genda type. This pump is one invented last year by Dr. Gaeda, it being a piston pump and capable of producing a vacuum of .00005 mm. This is the second shipment that the department has received since the war started, both orders being placed last summer.

**PROFESSOR BONNETT TO ADDRESS
CHEMICAL CLUB**

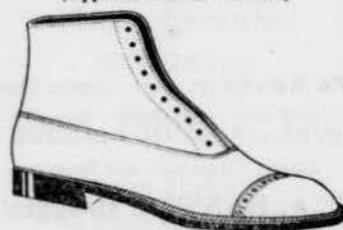
Dr. F. R. Bonnett of the department of chemistry will give an illustrated lecture before the Tech Chemical Society next Monday evening at 8 o'clock, in the Salisbury building. His subject will be "Garbage Disposal."

Dr. Bonnett has done considerable work in connection with the problem of the disposal of garbage and was one of the commission, which was appointed by Mayor Wright, to investigate the question in this city.

The meeting will be open to all who may wish to attend.

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